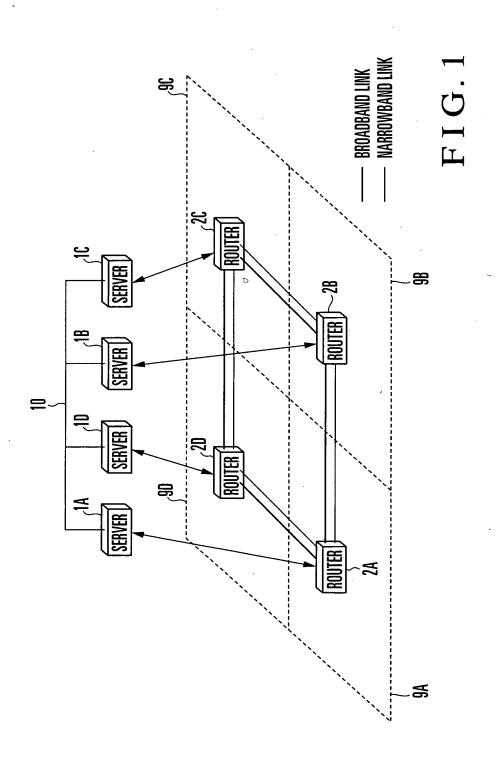
Title: Packet Communication Network, Route Control Server, Route Control Method, Packet Transfer Apparatus, Admission Control Server, Optical Wavelength Path Setting Method, Program, and Recording Medium

1st Named Inventor: Kenichi Matsui Express Mail No.: EV372842635US Sheet: 1 of 13

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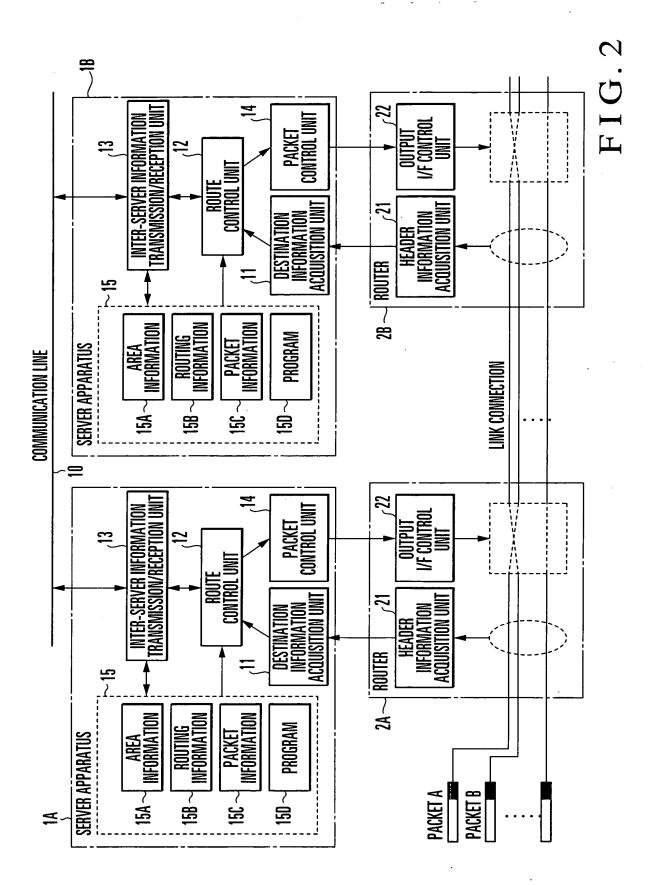
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Title: Packet Communication Network, Route Control Server, Route Control Method, Packet Transfer Apparetus, Admission Control Server, Optical Wavelength Path Setting Method, Program, and Recording

1st Named Inventor: Kenichi Matsui Express Mail No.: EV372842635US Sheet: 2 of 13

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10/535006

Title: Packet Communication Network, Route Control Server, Route Control Method, Packet Transfer Apparatus, Admission Control Server, Optical Wavelength Path Setting Method, Program, and Recording

Medium

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15B

15A

AREA INFORMATION

| AREA | SERVER | ROUTER |
|------|--------|--------|
| 9A | 1A | 2A |
| 9B | 1B | 2B |
| 90 | 1C | 2C |
| 9D | 1D | 2D |

F I G. 3

ROUTING INFORMATION

| DESTINATION | AREA ROUTE |
|-------------|------------|
| 2B | 9A→9B |
| 2C | 9A→9B→9C |
| 2D | 9A→9D |

F I G. 4

PACKET INFORMATION

15C

| , | |
|----------------------------|---------------------------------|
| DESTINATION IP ADDRESS | TRANSFER MANAGEMENT INFORMATION |
| 2C - A 2C - B 2C - C | PRIORITY NORMAL NORMAL |
| : | : |

F I G. 5

Title: Packet Communication Network, Route Control Server, Route Control Method, Packet Transfer Apparatus, Admission Control Server, Optical Wavelength Path Setting Method, Program, and Recording Medium

1st Named Inventor: Kenichi Matsui Express Mail No.: EV372842635US

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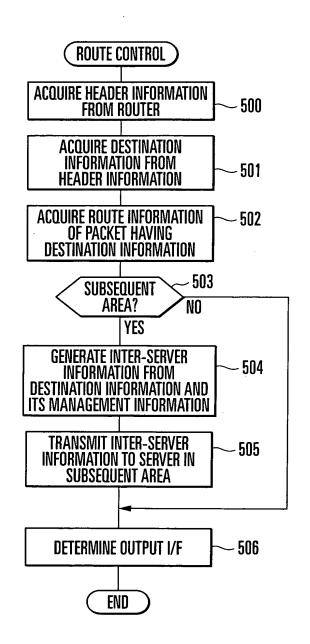
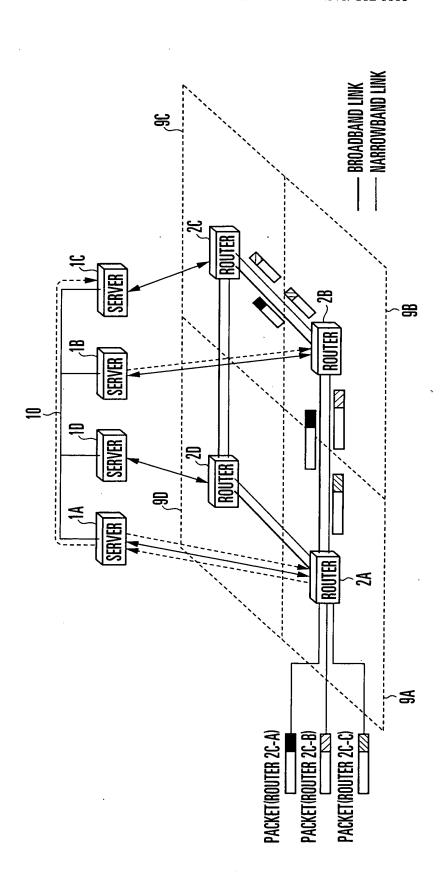


FIG. 6

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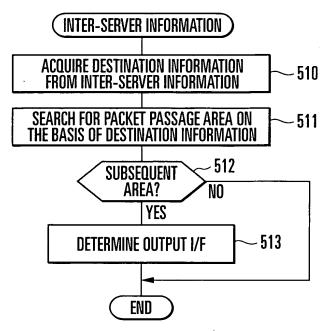
10/535006

Title: Packet Communication Network, Route Control Server, Route Control Method, Packet Transfer Apparatus, Admission Control Server, Optical Wavelength Path Setting Method, Program, and Recording

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F I G. 8

OUTPUT I/F INFORMATION (ROUTER 2A)

| DESTINATION IP ADDRESS | OUTPUT I/F |
|----------------------------|-------------|
| 2C – A 2C – B 2C – C | 1 2 2 |
| | : |

[1]=BROADBAND LINK

[2]=NARROWBAND LINK

FIG. 9

IN-AREA ROUTING INFORMATION (AREA 9B)

| DESTINATION AREA | PASSAGE ROUTER | Next ROUTER |
|-------------------------|----------------|-------------|
| 9A | 2B | 2A |
| 9C | 2B | 2C |
| 9D | 2B | 2A,2C |

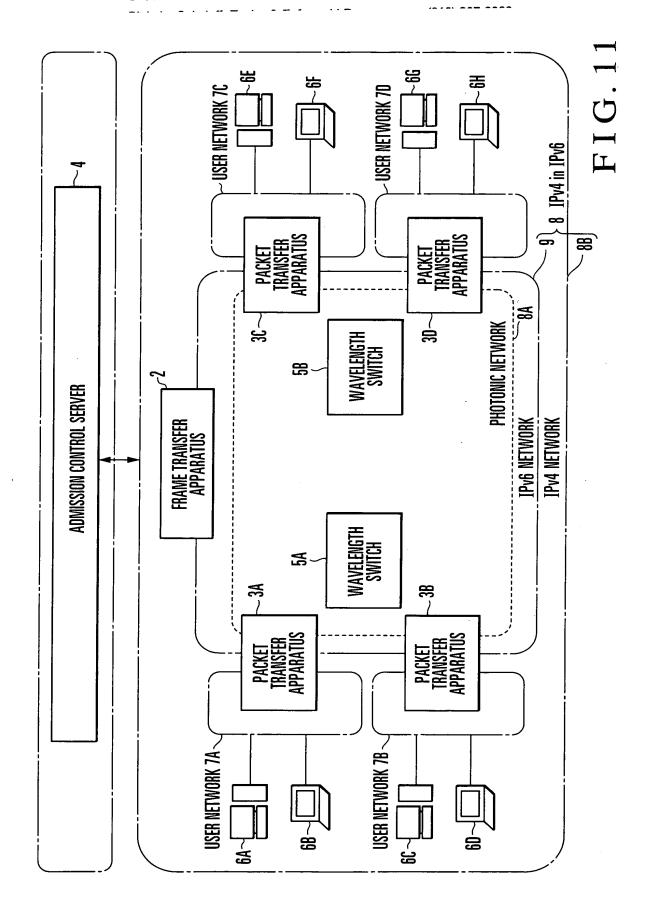
FIG. 10

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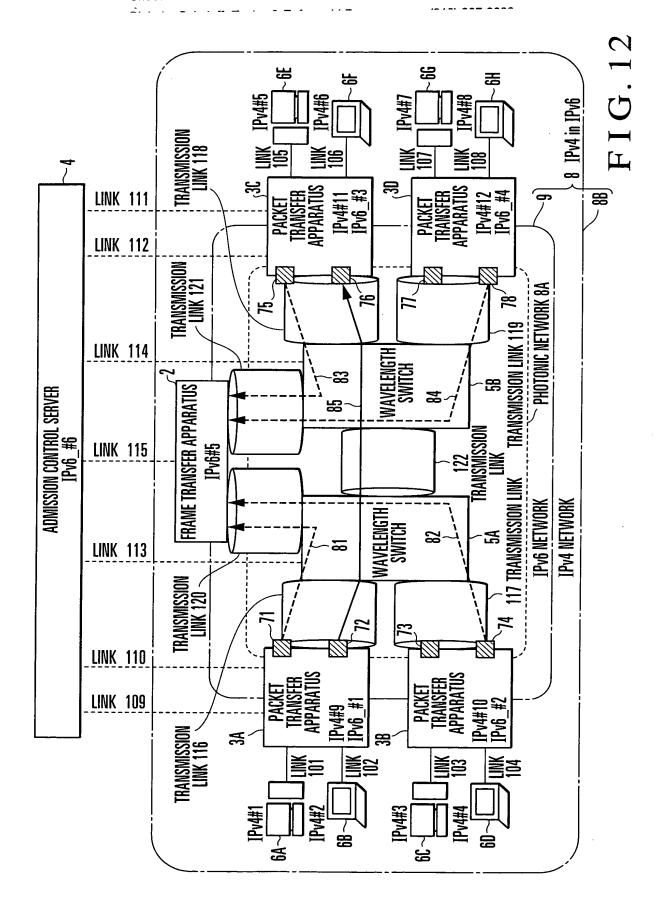


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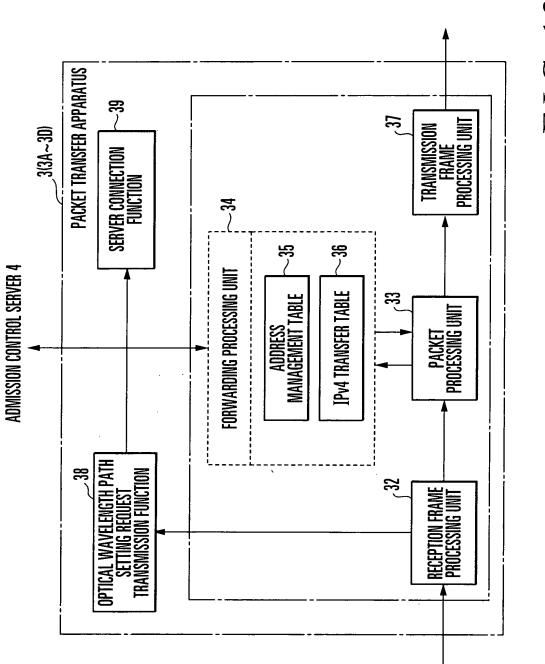
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Title: Packet Communication Network, Route Control Server, Route Control Method, Packet Transfer Apparatus, Admission Control Server, Optical Wavelength Path Setting Method, Program, and Recording

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10/535006

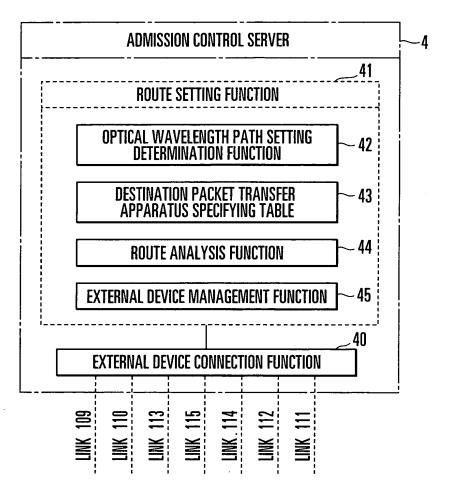


FIG. 14

| ADDRESS MANAGEMENT TABLE | |
|--------------------------|--------------------------|
| DESTINATION IPv4 ADDRESS | DESTINATION IPv6 ADDRESS |
| IPv4#3 | IPv6_#2_71 |
| IPv4#4 | IPv6_#2_71 |
| IPv4#5 | IPv6_#3_72 |
| IPv4#6 | IPv6_#3_71 |
| IPv4#7 | IPv6_#4_71 |
| IPv4#8 | IPv6_#4_71 |

IPv6 ADDRESS FORMAT IPv6_ADDRESS PREFIX_OPTICAL WAVELENGTH PATH IDENTIFIER

FIG. 15

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Medium

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ADDRESS MANAGEMENT TABLE

35

| TRANSMISSION SOURCE IPv4 ADDRESS | DESTINATION IPv4 Address | DESTINATION IPv6 Address |
|----------------------------------|-----------------------------|-----------------------------|
| IPv4#1 | IPv4#3 | IPv6_#2_71 |
| IPv4#2 | IPv4#3 | IPv6_#2_71 |
| IPv4#1 | IPv4#4 | IPv6_#2_71 |
| IPv4#2 | IPv4#4 | IPv6_#2_71 |
| IPv4#1 | IPv4#5 | IPv6_#3_72 |
| IPv4#2 | IPv4#5 | IPv6_#3_71 |

LINK 102

FIG. 16

| IPv4 TRANSFER TABLE | |
|-----------------------------|-------------|
| DESTINATION IPv4 Address | OUTPUT LINK |
| IPv4#1 | LINK 101 |

FIG. 17

| DESTINATION | PACKET | TRANSFER |
|--------------------|----------------|-----------------|
| APPARATUS | SPECIFY | ING TABLE |

IPv4#2

43

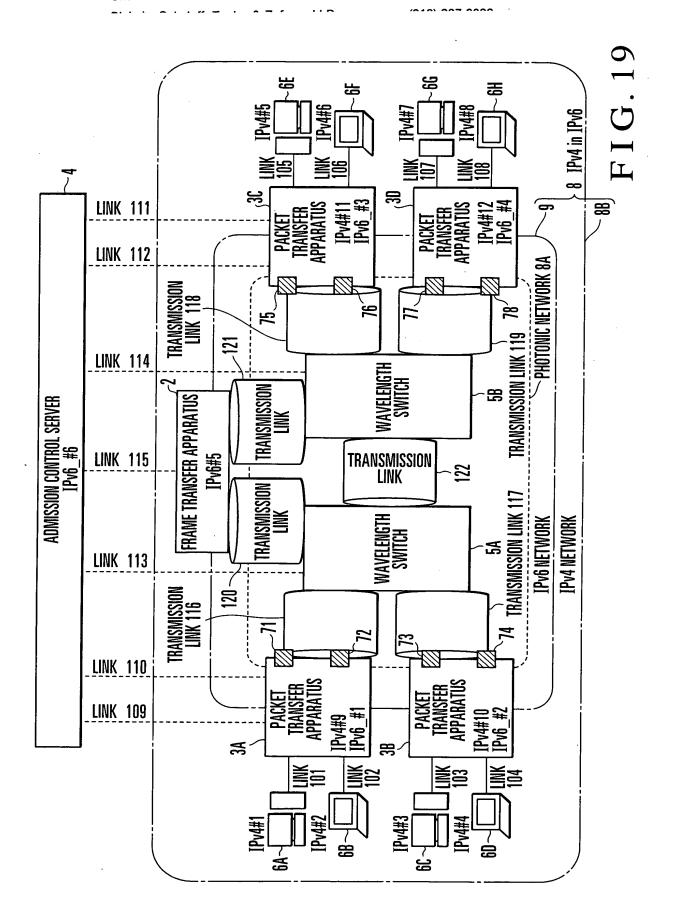
| DESTINATION IPv4 Address | DESTINATION IPv6 ADDRESS PREFIX |
|-----------------------------|------------------------------------|
| IPv4#1 | IPv6_#1 |
| IPv4#2 | IPv6_#1 |
| IPv4#3 | IPv6_#2 |
| IPv4#4 | IPv6_#2 |
| IPv4#5 | IPv6_#3 |
| IPv4#6 | IPv6_#3 |
| IPv4#7 | IPv6_#4 |
| IPv4#8 | IPv6_#4 |

FIG. 18

Title: Packet Communication Network, Route Control Server, Route Control Method, Packet Transfer Apparatus, Admission Control Server, Optical Wavelength Path Setting Method, Program, and Recording

1st Named Inventor: Kenichi Matsui Express Mail No.: EV372842635US Sheet: 12 of 13

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Title: Packet Communication Network, Route Control Server, Route Control Method, Packet Transfer Apparatus, Admission Control Server, Optical Wavelength Path Setting Method, Program, and Recording

1st Named Inventor: Kenichi Matsui Express Mail No.: EV372842635US

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